

THE ROLE OF ENERGY EFFICIENCY



Western Conference of Public
Service Commissioners'

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Whitefish, Montana

Commissioner Dian M. Grueneich
California Public Utilities Commission



ENERGY EFFICIENCY



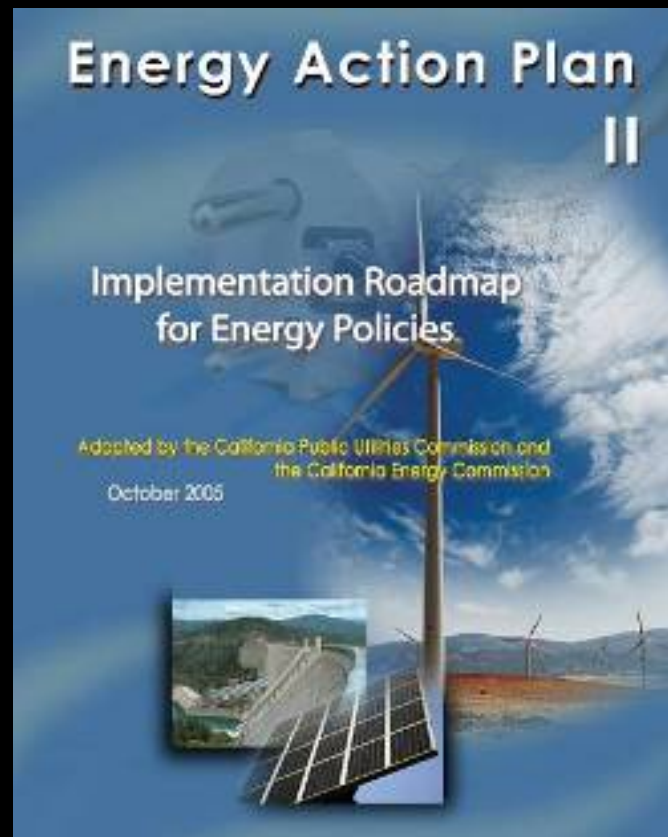
California's highest priority resource to:

- Meet energy needs
- Save money
- Reduce GHG emissions

Energy Efficiency is # 1 in loading order

WHAT IT TAKES:

INTEGRATION



- **Clear Policy**
 - “EE is #1 in loading order”
 - EE linked to resource planning
- **Firm Standards**
 - Building and appliance standards
- **Adequate Financial Mechanisms and Funding**
 - Decoupling sales from revenues
 - Performance-based incentives/penalties
- **Evaluation, Measurement, and Verification (EM&V)**

CALIFORNIA'S

AGGRESSIVE EE PROGRAM

- Eliminates need for 10 new power plants



- Eliminates 9 million tons of CO₂ emissions (equal to 1.8 million cars)



- \$10 billion in net savings



to consumers

THE NEXT GENERATION OF EE in CALIFORNIA



- **Long-term** (through 2020), statewide utility **Energy Efficiency Strategic Plan**
- **4 Big Bold Initiatives**
- **Interactive Energy Efficiency Web Portal**
www.californiaenergyefficiency.com

A strategy for achieving and exceeding aggressive state goals,
by leveraging industrial, commercial and residential sector efforts.

U.S.

ENERGY DEMAND

51%



Built Environment

27%



Transport

22%



Industry

Source: EIA, CalStar analysis

4 BIG BOLD Energy Efficiency Strategies

Commercial New Construction

- All new commercial construction in California will be zero net energy by 2030.



Residential / Small Commercial HVAC

- Heating, Ventilation, and Air Conditioning (HVAC) industry will be reshaped



Residential New Construction

- All new residential construction in California will be zero net energy by 2020.



Low- Income Energy Efficiency

- All eligible low-income homes will be energy-efficient by 2020



JOBS in ENERGY EFFICIENCY

- HVAC
- Lighting
- Glazing
- Plumbing
- Masonry
- Roofers
- Carpentry
- Refrigeration
- Construction



- Auditors
- Bldg Ops/Mgmt
- Educators
- NGOs
- Trainers
- INNOVATORS
- Consultants
- Policy Makers
- MORE!!!!

Demand in existing and new EE job categories provides opportunities
for jobs in all skill and income levels.

GENERIC REPRESENTATION OF

EMISSIONS REDUCTION MEASURES



Existing Efficiency and Renewable regulatory programs
are the foundation for implementation of AB 32

THE ROLE OF ENERGY EFFICIENCY



Leadership in Energy Efficiency =

Resource Benefits + Environmental Benefits + Financial/Economic Benefits